



**State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES**

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



October 16, 2003
Letter of Deficiency
DSP #03-051

Mr. Edward Thomas
Chairman
Town of Troy
P.O. Box 249
Troy, NH 03465

RE: Silica Pond Dam #238.10, Troy

Dear Chairman Thomas

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on July 15, 2003. During this visual inspection and/or file review, the following deficiencies were observed:

- There was undermining/erosion below the recently placed concrete apron at the base of the left overflow spillway;
- 2. The left downstream training wall of the left overflow spillway is beginning to show signs of cracking in a previously repaired section;
- 3. Leaking/seepage was observed within 1 foot above the concrete apron at the contact point between the right training wall to the left overflow spillway;
- 4. There were large trees within 10 feet of the downstream stone training wall along the toe of the dam; and
- 5. There are small trees and brush in the following areas:
 - a. On the left abutment both upstream and downstream;
 - b. Along the left concrete training/retaining wall;
 - c. On the right upstream face; and
 - d. Along the downstream face of the dam.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

December 30, 2003:

1. Remove the large trees within 10 feet of the downstream stone retaining wall along the toe of the dam;

Remove the small trees and brush in the following locations:

- a. On the left abutment both upstream and downstream;
- b. Along the left concrete training/retaining wall;

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- c. On the right upstream face; and
- d. Along the downstream face of the dam;

On a continual basis and prior to the next scheduled inspection:

3. Monitor and repair the undermining/erosion at the recently placed concrete apron at the base of the left overflow spillway;
4. Monitor and repair the historic crack on the left downstream training wall of the left overflow spillway, which had been previously patched; and
5. Monitor and repair the leakage/seepage, which was observed within 1 foot above the concrete apron at the contact point between the right training wall to the left overflow spillway.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. Please call or write to our office if the repairs are completed ahead of the aforementioned schedule so that DES may schedule a follow-up inspection. Unless notified otherwise, DES will conduct the follow-up inspection on or after the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. Please call or write to our office if the repairs are completed before the aforementioned schedule. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at 29 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095.

Sincerely,

COPY

Dale F. Guinn, P.E.
Dam Safety Engineer

Attachments Fact Sheets DB8, DB13

cc: Gretchen Rule ✓

Certified # 7000 1670 0000 05862589

DFG/was/h:/safety/wendy/lod/238-10lod.doc